

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: jjmartin@ix.netcom.com (JAMES J MARTIN)
Subject: [3918] 75 ohm attenuator
Message-ID: <199602060205.SAA16557@ix8.ix.netcom.com>

This is multipart MIME message.

--sctkeeawrnxbixmgkeprmrtsdisnhon
Content-Type:text/plain; charset=US-ASCII; name="NCZ0D33.TMP"

--sctkeeawrnxbixmgkeprmrtsdisnhon
Content-Type:text/plain; charset=US-ASCII; name="attn.txt"

Mike WA8MCQ earlier posting for a 75 ohm attenuator got me wondering about just what kind of an error you would get using one in a 50 ohm line.

I set up a test and came up with the following.

Equipment: 75 ohm 19" rack mount step attenuator 500 MW
maximum power input (Western Electric)

W7EL QRP wattmeter (calibrated with Tektronix 465
and checked against Bird 43)

Attenuator with -10db step enabled

Input	Output	actual attenuation
200 MW	18 MW	-10.458db
300 MW	27 MW	-10.458db
400 MW	36 MW	-10.458db

As you can see the attenuation is greater than expected but only by a little over 4%
With a scope on the output and in 10db steps the error from -10 thru -50 remained constant
If anyone else has looked into this I would sure like to hear from you.

--sctkeeawrnxbixmgkeprmrtsdisnhon--

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: "Vernon L. Rosson" <scalawag@ids.net>
Subject: [3916] Aren't computers really great?
Message-ID: <199602060132.UAA91443@nss2.CC.Lehigh.EDU>

Gang,

Many apologies for the BandWidth. Just when you depend the most on these things they jump up and bite you!

I WAS one of those people to whom this would NEVER happen. (And that's after my new Hard Disk totally folded after two weeks - before I "could" back up all the old, transferred files and the new ones I had carefully crafted. Oh, well.)

This weekend I noticed my QRP-L messages getting slower and fewer. By the time I told my server no messagers were coming over. The server apparently repaired the problem without any comment as to what/why it happend.

But no messages from the list. My best guess is now the Listserv computer has rejected my address as being invalid. Naturally, my list reference message went south with the crashed hard disk of a few weeks ago...SO I can't remember how to get back on.

Will some kind soul (if I'm actually off the list and IT hasn't gone where my HD went) intercede and get me back on. Was subscribed as SCALAWAG@IDS.NET (I, of course, will obtain a new reference message and print and save it like all the rest of you did.)

And just in case.....I'm not paranoid or anything.....The first person who takes any action please inform the list so that we don't bug the listserv for my mistake, and send me a message to my backup address so I can make sure my regular server isn't eating my messages? Backup addres: not for the subscription to the list LEEW5TEH@AOL.COM

(Oh yeah, after the HD crashed and I got a new one, The software killed all, repeat all, my drivers. So I was told to reinstall the drivers from my disks or my backup tapes. Guess what? those two drivers were included in "all"....can't install what you can't read. But that is another long story.)

Thanks, I gotta go find my quill and inkwell. If you want a reply from me please send your snail mail address as a backup.

Things aren't all bad, got my first two foxes ever on Friday....a twofer.

72, Lee W5TEH

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: "N100Q Tom R. @ MR01 05-Feb-1996 1104" <randolph@est.ENET.dec.com>
Subject: [3898] ARGH! conclusion...
Message-ID: <9602051620.AA26137@us4rnc.pko.dec.com>

QRPers,

I solved the spur problem with my new transmitter. I believe the prize for picking the right 2x4 to whack me upside the head with goes to W6EMD, who noticed that 2x the local oscillator passed right through all my filtering unmolested!

So anyway, inspired by all these variable IF filters going around, I came up with a double-tuned bandpass filter to replace the 7-11 MHz job that was in there. It's front panel switch-tunable to either 7 or 10.1 MHz, so I don't lose the option to add 30m down the road... All the junk is around 30 dB down now
30 dB or more down, like it should be. The output's a little low now, but I can probably easily get it back to 1 watt by fiddling with the input voltage dividers.

To all who offered help, THANKS!

With this comes a question... what's a good bias current for diodes switching RF? I have a 470 ohm resistor feeding two of them, and I can get less insertion loss by paralleling smaller resistances, up to a point.
(these are 1N4148's, power is 12V, so they each get about 12 mA)

-Tom R. N100Q randolph@est.enet.dec.com

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: bfollett@ditell.com
Subject: [3917] Better Batteries!!
Message-ID: <199602060137.SAA25664@orion.ditell.com>

>From the Wall Street Journal today:

I paraphrase:

Duracell & TDK are now partnering in the construction of Lithium-ion

rechargeable batteries. TDK builds the electrodes for them...

Duracell is now building their supply of standard size Lithium batteries for mass market release later in 1996.

This may not help those power hungry Alinco 70's and Icom 706's, but for the rest of us, a lot more power per once should be very helpful. -- A set of 10 AA size would fit very nicely in a Sierra case --

73, Bob

Bob Follett WA7FCU, QRP-L # 129, NorCal, ARCI, 10-10
2861 Estates Dr. VOICE: 801.649.6457
Park City, UT 84060 Home Office E-mail: bfollett.ditell.com

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: penc@elan.mrwo.mcgill.ca
Subject: [3896] Cascade and Sierra knobs
Message-ID: <9602051633.AA22730@elan.mrwo.mcgill.ca>

Gang:

I plan on building some accessories for my Norcal 40A, Cascade, and soon to order Sierra. Does anyone know the Mouser part numbers for the knobs, and are they the same for all? The Norcal 40 partial kit manual lists 450-2034 (small 0.6" knob) and 450-2039 for the large (1.38" tuning) knob. I'd like to get the same knobs as in the Cascade for the 40 partial kit, and for an antenna tuner project, so they all match.

QRPP: For those who said their QRPP didn't arrive yet, mine was just received in Utica NY on 2 February. Apparently the mail is extremely slow this time around for some reason.

Thanks es 72.995
Rich Penc WK2A/VE2
penc@radar.mcgill.ca

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: dh%reddog.csustan.edu@altair.csustan.edu (Doug Hendricks)
Subject: [3881] Dayton Building Contest
Message-ID: <9602050412.AA19661@reddog.csustan.edu>

Dayton is approaching and NorCal is again sponsoring the building contest. We started the building contest last year with the Pixie 2 and we all had a great time. Buck asked me to do it again this year, and I have come up with a slightly different twist after getting input from several who were at last year's event.

Last year, we passed out a schematic and a board, had everyone hunt for the parts in the flea market, and then we built the rigs Saturday night. The only problem was that people spent several hours building instead of visiting at the hospitality suite, which is what Dayton should be all about. So here is the change for this year. Instead of building the project at Dayton, we are publishing the articles ahead of time in QRPP and QQ, so that you can build the project and bring it to Dayton for judging by KI6DS, K5F0, and WA6GER. The prize? Bragging rights for 1 year and a year's extension of your QRPP subscription for the top 3 entrants of both projects. You may build and enter one or both projects.

We have selected 2 simple projects for the contest this year. One is the 49er which is a simple 40 meter Direct Conversion Transciever designed by Wayne Burdick, N6KR. It has the following features:

- *Runs on any DC voltage from 7 to 12V
- *Power output of roughly 250mW at 9 volts, 500mW @ 12V
- *VXO covers about 5kHz (7.037 to 7.042 using 7.040 crystal)
- *Full QSK
- *Very low current drain: 10mA receive, about 70mA transmit @9V
- *One simple alignment step

Wayne has worked as far east as Michigan with it, and the first station that I heard on mine was K5F0 running 950mW from Dallas!! Boards are available from NorCal (\$5 from Jim Cates, 3241 Eastwood Rd., Sacramento, CA 95821) and if a local club wants to order 10 or more boards, they are \$4 each.

Postage is included. The circuit board will fit in an Altoids box and the transceiver has 41 board mounted parts. It features a NE602, LM380 audio amp, and 78L05 plus 2N3904, J309 (or J310, 2N5484), and a 2N3866, 2N3553, or 2SC799 final transistor. All parts are available from Mouser and Digikey, and part numbers are included in the article.

The second project is a Regenerative Receiver from Paul Harden. There is no circuit board for this one, but it is very simple to build and works really well. Full building information is included in the article.

Both the 49er and the Regenerative Receiver articles will be published in the March issue of QRPP and the April issue of QRP Quarterly, the ARCI journal. If you don't subscribe and would like a copy of the information, or you just can't wait for the mail, then send me a stamped, self-addressed business sized envelope and \$1 and I will send you a 4 page copy of the article that will appear.

The artwork for the board is printed (I did the artwork, Wayne did the circuit design for the 49er) so those of you who make your own boards may do so. Remember, send to Jim for the board, the information packet to me.

Jim's address:
Jim Cates
3241 Eastwood Rd.
Sacramento, CA 95821

Doug's address:
Doug Hendricks
KI6DS
862 Frank Ave.
Dos Palos, CA 93620

See you in Dayton!! 72, Doug, KI6DS

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: Mike Robinson <miker@cc.com>
Subject: [3894] Flat J
Message-ID: <9602051608.AA25031@voder.nsc.com>

Has anyone ever built a Flat J? This would be a J-pole horizontal and cut for 40M. How long are the legs and where would the tap be?

=====
7.3 de Michael AA0UB miker@cc.com michael@frii.com
 <http://www.frii.com/~michael>
 QRP-L #126 Norcal #857 CQC #180
=====

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: RobCap@aol.com
Subject: [3891] For Sale: Heathkit Stuff
Message-ID: <960205100659_313009573@emout10.mail.aol.com>

For Sale: The following three Heathkit items are for sale. Each item is assembled, and includes documentation. All items are in full working order, and are in good shape, but have some scratches on the cabinet. In each case, the price is firm, and includes UPS ground shipping within the continental United States.

HM-9 QRP Watt Meter: \$55. Matches the HW-9. Has two ranges, 5W and 50W.
Measures forward power and SWR.

PSA-9 Power Supply: \$35. Matches the HW-9.

HWA-7-1 Power Supply: \$35. Matches the HW-8 and the HW-7.

Please reply to: Robcap@AOL.com

73,

Rob, WA3ULH

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: cummings.jim@ic.gc.ca (Cummings, Jim: DGRB)
Subject: [3890] FW: CW on emergencies
Message-ID: <1996Feb05.092516.1255.379917@mspost.ic.gc.ca>

From: Cummings, Jim: DGRB
Subject: Re: CW on emergencies
From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: Paul Weiss <pweiss@compumedia.com>
Subject: [3899] Help....help for this list
Message-ID: <Pine.SV4.3.91.960205083947.10761A-1000000@galadriel>

Hello,

I changed isp and would like to know how to get the help listing for this mailing list, so I can change servers....I dont want to miss anything so I want to do it right.....I forgot what the commands are for getting the help message....Thanx Paul KC7FYQ

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: QRP1@aol.com
Subject: [3904] I made a mistake! forgive me.
Message-ID: <960205140934_136415826@emout08.mail.aol.com>

Hello Gang,

Due to the comments I received I thought I should set the record straight.

I posted the wrong URL. The correct one is <http://home.aol.com/QRP1>.
We offer a FREE buy/ sell/ or trade service.

I made a simple typo.

Bruce

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: David Johnson <djohnson@acpub.duke.edu>
Subject: [3923] KnightLite Net
Message-ID: <Pine.SOL.3.91.960205224134.27902D-100000@godzilla5.acpub.duke.edu>

Hi Gang!

The KnightLites had a fine time last night (Sunday Feb 4, 10pm local Eastern time). I really enjoyed serving as the Round Table Host in the new Novice segment frequency (3710 kHz). Looks like 21 (!) participants in my log, including my own station.

I'm sure I heard more stations trying to check in than ended up in the log, but the I could tell that propagation was changing, and I found QSB and QRM and QRN were trying too! Please try another time if you didn't make it, as we love to hear from everyone. And that's one of the fun aspects of 80m at this time, the propagation can change within the time the net is running, and it can be VASTLY different from one week to the next.

It was a bit hectic when at one point I turned it over to N3G0, and I heard what must have been six stations all at once pump out tremendous carriers, all on different frequencies but within 300 Hz of my center freq!! It seemed as if the whole world picked that very time and place to do some on-the-air transmitter maintenance! I tried to carry on after a break in the mayhem, when they started up again, producing a symphony of heterodynes at 15 dB over S-9! So I called several times for a

QSY DN 2 (after finding it relatively clear there after a quick check), and then moved down to 3708 to resume the net. I was relieved to hear that Gary, N3G0, had followed, and much more relieved when several other stations checked in after that! Sorry to those I lost in this maneuver, but it was a judgement call, and sometimes drastic situations call for drastic actions (Gee, you'd think my house was on fire ;-)

It was a challenging session, but I had a lot of fun hearing the many QRPers. Everyone was either running QRP, or pretty close to the legal limit with the lowest output their rig could produce. This week the lowest powers were used by N3G0 and K3TKS, both running 100mW (and both with great sigs, thank you!). Danny, K3TKS, probably had the edge with the ZL loop, so Gary with his broken dipole (is that the droopingdipole Gary?; damaged from recent severe wx) really wins the low-power with least antenna category! haha!

I sure want to thank all check-ins for their participation and patience (it's hard to be congenial at slow speeds with a big roster!), and invite everyone to keep on sending your RF out to the Knights at the Sunday Round Table. No problem if you need to check out early, since some need to get to bed earlier than others, but at least give it a try, and give us a few words, ok? I look forward to hearing you all again!

Oh, fun note: after I declared the net free, Danny came on with some output-lowering tests with Paul, AA4XX, and me. We both heard Danny when he was running 5 mW ! (Paul, with his great antennas, had better copy though!)

Check out the recent additions on the KnightLite Home Page. There's a menu at the bottom to select other pages! Separate announcement to follow!

Hope to hear all you Good Knights again, at the Round Table!

72,

Dave

David W. Johnson	QRP ARCI 6546
Amateur Extra WA4NID. Low power enthusiast!	G-QRP 4864
email: djohnson@acpub.duke.edu	NorCal 355
packet: WA4NID@KB4WGA.#DUR.NC.USA.NOAM	TSRAC 3482

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: Richard Fisher <ki6sn@pe.net>
Subject: [3900] March Worldradio Billboard
Message-ID: <Pine.SOL.3.91.960205082916.12839C-100000@victoria>

Coming in March 1996's Worldradio QRP column:

-- HEATHKIT AND THE QRPER. Chuck Penson's new book ``Heathkit, A Guide to the Amateur Radio Products'' takes QRPers for a tune across memory lane. >From '50s classics like the DX-20 transmitter to the modern day HW-7, HW-8 and HW-9 transceivers, the book features thumbnail sketches of more than 150 Heath Co., kits -- many popular with QRPers -- in words and pictures. (A detailed look at the book, with photograph)

PLUS BRIEF ITEMS ABOUT:

- Formation of a radio club supporting people who combine human-powered adventuring with amateur radio.
- Whose been nominated for openings on the QRP ARCI board of directors?
- QRP-L Internet QRP Club goes numerical.
- Colorado QRP Club's plans for publishing a book.
- Results of ``The Great NorCal Regenerative Receiver Building Contest.''
- MFJ 90s Radio Club's revived newsletter and new leadership.
- New 80 meter QRP nets, east and west.
- Dave Benson's, NN1G, series of Green Mountain QRP transceivers.
- Arizona SCQRPION QRP Club's public relations successes.

An index and synopsis of Worldradio QRP columns from April 1993 to March 1996 is available free via e-mail. Send requests to: KI6SN@pe.net

Vy 72,

Richard Fisher, KI6SN

Worldradio QRP columnist

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: Paul Harden <pharden@aoc.nrao.edu>
Subject: [3909] NA5N Fox Report
Message-ID: <199602052152.0AA26594@zia.aoc.nrao.edu>

Gang,

Boy ... what a difference a little propagation makes! My Jan 15th fox nite was a bust with 5 QSO's (2 local hams) due to near blackout on 40M. Friday nite was very fruitful, good conditions and pileups for the most part, with propagation waning a bit towards the last half hour. The contest also going on made it necessary for me to move around a bit to avoid the QRO CQ TEST that came up right on top of me, but I kept within 7040-7045. Afterwards, went to 7145, called CQ FOX twice and worked two novices. Unfortunately, neither had a clue as to what the fox hunt was. So I appologize to any N/T+ that tried to work me ... I was there but in QSO. One of the novices turned down his Icom 730 to minimum power and was amazed we could still QSO. Gotta a new QRPer out there on his way. Also note how the propagation changed within minutes from one part of the country to another; the bunch of Oklahoma stations are unusual from here. Hope I worked everyone who called.

No. UTC STN HIS MINE QTH Name, etc.

Monday, Jan 15 (Jan. 16 UTC)

1	0215	WB5LXA	599	599	NM	Felix, a local QRP-Ler at 4W
2	0221	WB4TPW	449	44N	OR	
3	0254	K2NF	449	339	FL	Norm
4	0230	AE4IC	45N	339	NC	Bob, running 2 watts
5	0322	KB5YIX	599	599	NM	Sandy, literally the ham next door!

THE FRIDAY NITE SPECIAL part, FEB. 2 (Feb. 3 UTC)

6	0115	W3PM	459	55N	AL	Ned
7		AB6DG	559	559	CA	John
8		K6QQ	569	559	CA	John (presumably another John!)
9		K6CA	559	559	CA	
10		WA1GUV	449	33N	VT	Tom
11		K06KA	459	559	CA	Rob
12	0120	N50CD	579	579	LA	QRP-L #324
13		W5TEH	459	44N	RI	Vern
14		N6MM	599	599	CA	Harvey (and a true 599)
15		W6ZH	579	5NN	CA	Pete "Very close to N6MM"
16		N5GW	579	57N	MS	

17		KC00S	559	459	NE	Bob
18	0136	AB5B	579	55N	MS	
19		W5HNS	339	449	TX	Henry
20		WB5QMP	449	55N	ID	Randy
21		WA9PWP	459	449	WI	
22		KC2DU	459	439	NY	John
23		KC5EQC	449	449	OK	Don
24	0156	N3KFL	559	339	PA	
25		K8DD	449	33N	MI	
26		KA5T	339	33N	TX	
27		K5UP	559	559	OK	Glen QRP-L# 21
28		KK5RO	579	599	OK	Vernon QRP-L# 325
29		AC5BC	449	34N	--	LOST, Contest CQ on freq.
30		N0WM	55N	55N	MO	Bill
31	0220	AA0YU	559	55N	CO	Allen
32		W1HUE	339	229	ID	5W
33		AB5UA	579	579	OK	Clif 2W
34		KC5RAS	339	449	?	Bob - Another contest CQ came up
35		KB5YIX	599+	599+	NM	Sandy, my next door neighbor
36		WA1LNP	579	579	NH	Gordon
37	0251	W00Q	559	539	CO	Marty -worked him thru a CQ, gud signal!
38		WB4TPW	559	58N	OR	
39	0258	K3ETS	559	429	TX	Mighta been a SS contact?
*** To NOVICE BAND						
40	0306	KC5GTQ	569	559		Mark, Witchita Falls, TX Icom 730 100W and dipole, but went to 5-10W at end. 5wpm.
41	0348	N5GW	559	569		Gene in MS, 12 degrees 5 wpm, didn't say much.
	0411					-went QRT

72, Paul NA5N (Using modified 9040 5W and inverted vee up 35 feet)

PS - Got several emails that friday was a nice time and the only time available to many. Some suggested a late friday nite fox. I would be willing to do another Friday Nite Special, Night Owl Version, if enough interest, although would probably NOT count as the fox - jest fer fun. Let me know.

From qrp-l@lehigh.edu Mon Feb 5 22:39:51 1996
 From: aa7qy@primenet.com (Roger Hightower)
 Subject: [3897] Oscilloscope info?
 Message-ID: <199602051636.JAA00135@usr5.primenet.com>

Hi gang. Thought I'd tap the wealth of knowledge here. I'd like to expand my knowledge of electronics and move beyond just plugging stuff into a circuit board, like learning to use an oscilloscope so I can see

what's going on in all those little circuits.

What should I look for as a minimum for ham use? Does anyone have any experience with the RS probe-style scope working with the PC? Can you give me a rough idea what I might expect to pay for a working scope at a hamfest?

Unless you think the whole group might benefit, pse respond privately.

Thanks es 72/73, de Roger, AA7QY

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: n2mnn@openix.com (STEVEN PITUCH)
Subject: [3912] QRP Club Logos
Message-ID: <199602052326.SAA04632@pantera.openix.com>

I managed to download the QRP-L logo and insert it into my QSO card Corel Draw graphics file. The "rp" part of it was too small to read so I scaled up just these two letters by 2x. It looks really neat.

If anyone knows of how I can get hold of PC files for the QRP-ARCI, Nor-Cal, and NE-QRP Club logos, I would appreciate a personal e-mail. It would be nice if they ultimately ended up on the Lehigh server for everyone's use.

73,

Steve, N2MNN
N2MNN@OPENIX.COM

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: "TimCook" <timcook@erinet.com>
Subject: [3883] QRP RECYCLER??
Message-ID: <199602051304.IAA23140@eri.erinet.com>

Anyone find the reference to 'qrp recycler' from Bruce N3JOV to be something other than advertising for a Photo Trader service?

Tim, NZ8J
Tim Cook
timcook@erinet.com

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: PDouglas12@aol.com
Subject: [3905] Review of NW 80/20 (long)
Message-ID: <960205143329_136435193@mail04.mail.aol.com>

Please consider this review as preliminary, as I am still building my second NW:

.
Internet Review

MFR: Emtech , 13848 SE 10th , Bellevue, WA 98005; tel 206 747 6810; email: roy.gregson@usfamily.wa.com

Designer: Roy Gregson
Model: NW 80/20 for 80,40, 30, and 20
Size: Cabinet not supplied. Made to fit snugly in RS # 270-253 cabinet

Weight: In RS cabinet, about 3 lbs, due to heavy cabinet. In an aluminum cabinet would be much lighter. Important, there is not yet any cabinet available. You have to supply your own case, knobs, and standoff hardware. You have to do your own drilling and labelling. See notes below. Controls, pots and VFO caps are supplied. You supply connectors for key, phones, RF, and 12v.

PC: Single-sided, solder masked, silk screened, uncrowded. Almost all parts mount flat. Well labelled and masked so there is very little opportunity for mistakes or solder bridges.

Manual: Well detailed. Clear and reasonably accurate. Suitable for a beginner with a little help. Construction is in stages, with each section of the transceiver built as a module (different sections of the PC board make up logical subdivisions of the rig) . Testing and preliminary alignment is done as building progresses, so builder is reasonably assured of a working radio at the end of construction. If it doesn't work Emtech will fix it for a modest fee.

Power : 0-5 plus watts. A full QRP gallon.
RX Drain: 62 ma idling rcvr--as high as 450 with audio wide open on speaker with loud sig. Avg with sig 75ma (Mfrs. spec.,)
TX Drain: about 750 ma at 5W. (Mfrs. Spec)
Modes: CW only
Kit?: Yes
Bands: Your choice, single band: 80, 40, 30, 20 (bands tested by WJ2V, 80 and 20)
LO/VFO: 6.3, 4.8, 1.85, 4.4 mHz , respectively. NB novice bands can be covered, maybe at some small sacrifice of coverage at the Extra end of bands.

Drift: Not measured. Stable.
Dial: 8:1 cap in VFO
RX: SuperHet
XMT: 500-1000Hz offset, adjustable

Filter: 4 Pole XTAL with VBT optional--parts included. Optional audio filter makes this radio razor sharp. Recommended, especially for 40m work.
Selectvty: not measured. Est at 300 to 2000 with VBT tight/wide
RIT: Yes. No center detent, no off switch--must be accurately aligned, therefore
Gain: AF
AGC: No. So no easy S meter .
Preamp: No, but post filter JFET puts back gain lost in filter, making this a very powerful receiver for its class. A substantial improvement in the design of these NE602 based rigs (what I call the Rick Littlefield floor plan)
Atten: No

SPKR: Yes, this is a very strong feature of the NW. Full speaker audio. Enough gain to compensate for the negative gain of the xtal filter at its narrowest setting. You supply your own speaker, though.

METER: Well, the circuitry for a relative output meter is on the board, and parts supplied, except for the meter movement itself. The meter circuit is very useful for building/alignment, so a 100ma (even 200ma will do) movement is handy to have around. But I would hardly spend the time cutting a hole in the cabinet for a meter that only shows the transmit relative output. I like to watch an S meter bounce, but it isn't practical here without some added HB circuitry. I used a left over old meter for building and I plan to cut its wires and leave it out of the finished rig.

S Tone: Sampled RF

VFO: Yes.

Output: 5W

Keyer: Instructions are given for adding the Wilderness KC1 keyer/freq counter. If this rig is going into the field, this addition would make it a very fine FD rig.

QSK: Yes, SOLID STATE

Price: \$80 plus postage. Audio filter additional \$20.

Avail. Now.

From qrp-l@lehigh.edu Mon Feb 5 22:39:51 1996

From: PAT DOYLE <DOYLEPS@LAKEHURST.NAVY.MIL>

Subject: [3885] SPRAT Index -Reply

Message-ID: <s115b7ad.025@LAKEHURST.NAVY.MIL>

What is the WWW address for the QRP-L homepage?

KA2GSL

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: DCrespy@aol.com
Subject: [3920] SW-40
Message-ID: <960205215802_415477266@mail06.mail.aol.com>

Dave,

A "flash session" glitch may have delayed my first message. A quick recap:
I finished my SW-40 last night...its a DELIGHT!! surprisingly quiet and
sensitive RX. Full 1.5 watt TX. Fun Kit.

The lower end (1st 20%) of the tune control seemed to have little effect.
I'd proposed adding a 22K resistor between it and ground. Tried it..no
change.. I checked the Pot and found it was Audio Taper. Went digging
through the trash to find the Radio Shack package...It was labeled Linear
Taper!!! I am copying the QRP-L as a warning to other builders. Check
first..before cutting shafts and soldering wires...

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: rxd7@hunny.INS.CWRU.Edu (Richard A. Dell)
Subject: [3908] Test (Null)
Message-ID: <199602052113.QAA12200@rabbit.INS.CWRU.Edu>

Test
Richard A. Dell
8085 Wren Drive
Macedonia, Ohio 44056

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: tbowman@nbn.net
Subject: [3914] Torroid winding program
Message-ID: <199602060023.TAA83179@nss2.CC.Lehigh.EDU>

Checking the Web, I found this group of programs that does everything from
determine turns for a torroid, design diplexers and give values for a
universal VFO.

While the program is new to me, some OTs might have found it. The program is
qrphb1.zip from Jenna Design and is freeware.

No joke. The following is the URL where I found the file:

<http://vsl.cnet.com/cgi-bin/vsl-master/File?archive=sim-win3&file=hamradio%2fqrp1%2ezip&size=139156>

Tom Bowman, WA3REY, qrp-1 #125, QCWA, tbowman@nbn.net

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: Mike.Czuhajewski@bbs.abs.net (Mike Czuhajewski)
Subject: [3924] Updated filter software
Message-ID: <1996Feb05.225843.13391@abs.net>

A while back I uploaded some freeware by Bob Lombardi, WB4EHS, to the tools area at ftp.lehigh.edu. The file was fds214.zip or some such, 55K worth of a PKZIPPed filter design program for designing low pass, high pass, etc. He told me a while back that he was working on an update, and now it's available. I had him put the new one at ftp.lehigh.edu, under pub/listserv/qrp-1/tools, and the name of the file this time around is fds200a.zip. I should have saved the blurb he put on USENET about all the improvements to it--it's quite an impressive upgrade from the old one, and I loved that one even as it was. The original is 55K, zipped up, and the new one is 163K! I haven't tried it yet, but should be pretty good. He's not a QRPer, but he has a program of great usefulness to us. If you ever feel like designing an RF filter of some sort, give his program a try. It may not do everything that the expensive professional ones do, but it's a lot cheaper!

73 and Queue Our Pea DE WA8MCQ wa8mcq@bbs.abs.net

--

Mike Czuhajewski, user of the UniBoard System @ abs.net
E-Mail: Mike.Czuhajewski@bbs.abs.net
The WB3FFV Amateur Radio BBS - Located in Baltimore, Maryland USA
Supporting the Amateur Radio Hobby, and TCP/IP InterNetworking

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: Larry East <LVE1@inel.gov>
Subject: [3893] Venting...
Message-ID: <9602051545.AA13317@garnet.inel.gov>

LONG LIVE CW!

THE ONLY GOOD BUG IS A DEAD BUG! (Just kidding...)

ANY PADDLE THAT WORKS FOR YOU IS A GOOD PADDLE!

Now, can we get back to our normal discussions of rigs, mods, tweeks, and Foxes?? (Well, maybe only short ones about Foxes...)

72, Larry, W1HUE/7

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: Tom_Jennings <jennings@eng16.rochny.uspra.abb.com>
Subject: [3901] Wanted: 2m Rubber duck antenna Recommendations
Message-ID: <jennings-9601051748.AA00078537@eng16>

Hi!

Well I lost my 2m rubber duck antenna for my ht. I guess that is a hazard when you use an ht in the car because of changing antennas.

So can anybody recommend a "decent, not to long and not too expensive" rubber duckie antenna?

73,

Tom, kv2x

Thomas J. Jennings | Tel: (716) 273 7071
Senior Engineer | Fax: (716) 273 7262
ABB Industrial Systems Inc. |
Post Office Box 22685 |
Rochester, New York 14692-2685

Internet: jennings@jennings.rochny.uspra.abb.com

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: dh%reddog.csustan.edu@altair.csustan.edu (Doug Hendricks)
Subject: [3913] Wilderness group buy phone
Message-ID: <9602052334.AA20441@reddog.csustan.edu>

The area code for Wilderness Radio is 415, NOT 414 as in the message yesterday.
OOPs. 72, Doug

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [3903] Working people on an Eico 722K VF0!
Message-ID: <Pine.3.89.9602051358.A19618-01000000@w3eax.umd.edu>

My friend Howard, out in Arizona, reports having worked 13 states with
his Eico 722K VF0 simply hooked up to a long piece of wire back in the
1960's.

Anyone have any idea of how much power this thing could realistically put
into the air?

Scott Rosenfeld NF3I Burtonsville, MD FM19 QRV 40-10/6/2/440
** Yes, you CAN do VHF contests with 25W and omni antennas **
Still stuck at 138 countries confirmed on HF w/dipoles...
72 & 73 from suburban DC 301-549-1022 (h) 301-982-1015 (w)

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: "Vernon L. Rosson" <scalawag@ids.net>
Subject: [3919] Re: Aren't computers great
Message-ID: <199602060209.VAA52566@nss2.CC.Lehigh.EDU>

Gang,

I checked the mail 30 minutes after sending the previous.... "you've got
34 messages." Needless to say, they were all from the list!

I don't even know what question to ask! Guess my list mail was holed up
somewhere.....just waiting for me to bare my soul in public.

If you need me, I'll be at the monestary for a few month.... QRP only.

Thanks to all who would have helped.

72 Lee W5TEH

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: George.Gingell@bbs.abs.net (George Gingell)
Subject: [3888] re: CW HELPS
Message-ID: <1996Feb05.092010.24581@abs.net>

Message 1/1 from Charles Cashion Friday, February 2,
1996

Subject: sending code to a computer

George,

I have a PC with a 386 cpu.

Does there exist a public domain computer program that I can
run and it will copy my sending? Like you said, if my computer
cannot copy it, why should I ask my friends?

Thanks,

Charles

KC5SNU

--

from G. Danny Gingell, K3TKS @ bbs.abs.net

CW Interface to Computer -

The 1996 ARRL HANDBOOK - Section 22, Pages 24, 25, and 26.

Quick and Easy CW with your PC by Ralph Taggart, WB8DQT.

The PCB is available from Far Circuits.

The Software is on the Disk which comes with the New Handbook.

It is also available from the ARRL BBS. (860)594-0306.

Permission is Granted to Reprint this in any QRP Publication.

Maryland Milliwatt QRP Reference Library (301)572-6789.

QRP DX TU (C) 1986, G. Danny Gingell, K3TKS@bbs.abs.net

THIS IS INTENDED TO BE USED AS A MEANS OF PRACTICING SENDING CODE WITH A
STRAIGHT KEY.

--

George Gingell, user of the UniBoard System @ abs.net

E-Mail: George.Gingell@bbs.abs.net

The WB3FFV Amateur Radio BBS - Located in Baltimore, Maryland USA

Supporting the Amateur Radio Hobby, and TCP/IP InterNetworking

At 16:27 02/02/96 EST, you wrote:

>

>

>>>==>PStJTT

Patrick Taber

Email: ptaber@logiccraft.com

Phone: (603) 880-0300

Fax: (603) 880-7229

Also known as: KC1TD

Hi Allen In a recent message you wrote:

>Thanks de Allen, K9DZE

I tried calling the Days Inn - South direct as per the directives here, but was told that they had made a mistake by taking reservations that way. The only proper way to get a room in the QRP group reservation is to contact Myron Koyle. I have been unable to find the specifics on what exactly we are supposed to send to Myron - something about 2 SASEs. Payment too? I don't know. It would be nice if we could get the info posted again. Even better - it would be nice if next year the QRP List group would get some rooms that we could arrange for by E-Mail or by calling the hotel direct. It sure sounds easier than sending envelopes and waiting, and waiting, and finally getting an answer at the last minute. I don't mean to criticize Myron and all the work he has done to aid in the effort over the years, but maybe we could explore some alternatives that would make things easier for us all.

Tom N9DD

South Bend, IN

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: "James C. Owen, III" <owen@apollo.eeel.nist.gov>
Subject: [3895] RE: Explorer II hearing problem
Message-ID: <40957.owen@apollo.eeel.nist.gov>

In message Sun, 4 Feb 1996 17:41:27 EST,
tdrumm@sparc.isl.net (Tony Drumm) writes:

The alignment > procedure went OK but the receiver just doesn't hear. I can switch back and > forth between my Icom and the Explorer and it doesn't hear stations at S5 > or even higher.

> Tony Drumm

Connect the output of the Explorer to the input of your main station receiver or transceiver. Don't transmit on either one. Turn on the 100 KHZ calibrator and use this as a signal source to tune up the Explorer receiver. There should be a good peak and the capacitors should not be at minimum or maximum value but this is hard to tell by looking. Check the values in the RF signal path and also the connections. My 40m explorer hears just great, in fact it's as good as the R4C. 72/73 Jim K4CGY qrp-1 #72

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: bhowell@MAIL.UTEXAS.EDU (Bill Howell)
Subject: [3910] Re: Explorer II hearing problem
Message-ID: <199602052236.QAA20164@mail.utexas.edu>

Packet: aa0sm@wd0gnk.#semmn.mn.usa.na

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [3892] Re: Finally got Alaska
Message-ID: <199602051509.PAA26968@chuck.dallas.sgi.com>

Roy et.al.,

Congrats on the AL7 on 40M. Geeez. Wouldn't you know it
I'm in CA and 40M opens up. Rained out the flea market
in Livermore.

Look for me on 40M with my SW40 from MtView this week.
Have to run over and get a gel-cell as I didn't bring mine
as I was going to buy a few for the TX group. I left Dallas
with temps in the teens for "sunny" CA. No such luck.

For the CA group. Two Guys from Italy on El Camino on
Thursday nite (pizza place two doors down on the
south side of same building if they are still remodeling
the Italian Restaurant) at 6:30pm. Email me if you are
coming. I have the SW-40 and the GM-40 with me and some
other goodies. See you there.

dit dit de k5fo/6

--

Chuck Adams (K5FO CP-60) adams@sgi.com
Box 181150, Dallas, TX 75218-8150

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: "Harvey D. D. Hetland" <HDHETLAND@paccd.cc.ca.us>
Subject: [3889] RE: Foxes on 2 bands
Message-ID: <36290A215D@manage.paccd.cc.ca.us>

Some comments from Steve, N2MNN

> I think having the Foxes on two bands last night was an excellent idea.
> Most of the Foxes have seemed to be in my 40 Meter skip zone on the East
> coast.

Yes, I do have to admit that I enjoyed the two band effort, but after I worked NA5N on 40 meters at 0132Z I looked at the setting sun out of my ham shack window. I spent the last 30 minutes of the 80m fox time digging in the 80m noise optimistically searching. Best I could hear was a chap portable in W8 land. Just too early for propagation between the coasts, but that is what makes the fox hunting interesting and it keeps me busy while waiting for a possible North Korea or Yeman operation, HI. The previous night I heard several W4s working KH4/NH6D on 80m CW, and I managed to work him with 5 watts and a dipole at 60 feet at 0755Z. Realistically that is getting too late for the fox hunts, and I suspect that contributed to a lack of response to N6ULU's numerous CQs during his last hour the previous night (Thursday local, Friday UTC). Perhaps once a month a late night 40 and 80m undertaking on a Friday would be would be interesting? I certainly would be crazy enough to sit in my chair and dig in the noise 73, Harvey, N6MM.

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: PAT DOYLE <DOYLEPS@LAKEHURST.NAVY.MIL>
Subject: [3886] Re: Logging software -Reply
Message-ID: <s115c158.057@LAKEHURST.NAVY.MIL>

For those frugal souls uninterested in the current goodies available on CT8/9, CT 6 (and a CT style CW contest practice program) is available as a shareware.

Try <http://mars.acs.oakland.edu/oak/>. I think that you can reach it by FTP at oak.oakland.edu. I think it can be found in the in directory pub3/hamradio/dos.

GL. 73 de KA2GSL

From qrp-l@lehigh.edu Mon Feb 5 22:39:51 1996
From: prvalko <prvalko@Oakland.edu>
Subject: [3907] Re: Logging software -Reply
Message-ID: <Pine.OSF.3.91.960205150945.24958A-100000@saturn.acs.oakland.edu>

On Mon, 5 Feb 1996, PAT DOYLE wrote:

```
> Try http://mars.acs.oakland.edu/oak/. I think
```

actually (I think), just go to the regular OU homepage at

<http://www.oakland.edu>

and go to the archive for the SIMTEL mirror.

While you are at Oakland University, stop into the alumnus section of the homepage and check out that university's most famous QRPer.

```
:-)    =paul= wb8zjl    prvalko@oakland.edu    I love to see msgs like Pats'!
```

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: Pat Taber <ptaber@logiccraft.com>
Subject: [3902] Re: March Worldradio Billboard
Message-ID: <199602051759.MAA70119@nss2.CC.Lehigh.EDU>

```
>>From '50s classics like the DX-20 transmitter to the modern day HW-7, HW-8
>and HW-9 transceivers,[...]
```

Keewl ---- give me the phone number to order one of these modern day transceivers. What's that you say? Out of business for a decade? Better stop taking those aluminum supplements....

>>>==>PStJTT

Patrick Taber	Email: ptaber@logicraft.com
Principal Software Engineer	Phone: (603) 880-0300
Logicraft Information Services	Fax: (603) 880-7229
22 Cotton Road	
Nashua N.H. 03063	Also known as: KC1TD

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: aa7qy@primenet.com (Roger Hightower)
Subject: [3887] Re: QRP RECYCLER??
Message-ID: <199602051407.HAA07386@usr5.primenet.com>

At 08:10 AM 2/5/96 EST, TimCook wrote:

>Anyone find the reference to 'qrp recycler' from Bruce N3JOV to
>be something other than advertising for a Photo Trader service?

> Tim, NZ8J

>Tim Cook

>timcook@erinet.com

>

Once he posted the right URL, I tried it and found it to be an ad for a
"for sale" service. Also locked up my confuser every time I accessed it.

72/73, de Roger, AA7QY

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: N5EM@aol.com
Subject: [3911] Re: QRP-NE Patches
Message-ID: <960205181452_136641496@emout06.mail.aol.com>

In a message dated 96-01-31 18:11:21 EST, you write:

>QRP-NE Logo - Embroidered Patches (red, white & blue)

>

>are still available.

>

>\$4 ea. or Two for \$6.00 (Postpaid)

>

>Make checks out to:

>

>Bob Moeller KA1PXF

>9 Corey Lane

>Bennington VT 05201-2116

>

>

>

They are cool, too. And that's from a serious collector :-)

Ed, N5EM

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: burdick@interval.com (Wayne Burdick)
Subject: [3882] re: Sierra, filter curve, BFO frequency
Message-ID: <199602050758.XAA21706@interval.interval.com>

Arjen,

Thanks for doing the ABX modification and for your analysis. I believe you're correct in your statement about Cohn filters in general. But there are three possible differences in the case of the Sierra.

First, note that there is a *second* crystal filter after the I.F. amp; this filter removes wideband I.F. noise but also modifies the overall shape. Second, it may be that the termination impedances for both filters are asymmetrical enough to modify the usual response curve. Finally, the varactors are going to make things even less predictable: they are typically matched to about 10 or 20%, which is not as good as the original 5% capacitors. And as you vary the ABX control, all bets are off.

As I discovered later, Ten-Tec has been using a much more complex version of this filter for years. Their "Jones" filter has more varactors, along with individual bias compensation trimmers for each, presumably to improve passband symmetry for SSB.

Next time I sweep the filter I'll post the results. In the mean time, enjoy it--everyone who's done the ABX mod and reported back to me has raved about how much better it works. A small amount of passband asymmetry appears not to matter, in most cases, for receiving CW.

73,
Wayne

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: KFGlynn@aol.com
Subject: [3906] Re: Wanted: 2m Rubber duck antenna Recommendations
Message-ID: <960205145127_136450066@emout08.mail.aol.com>

Hello Tom,

I like the Larsen dual-bander. It's abt 7-8" and it works FB for it's size.

Cost was in the high \$20s I think. Not sure but it works well agn.

73 de Kevin KB2TE0

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: "Jerry B. Altzman" <jbaltz@scisun.sci.ccny.cuny.edu>
Subject: [3925] Re: Wanted: 2m Rubber duck antenna Recommendations
Message-ID: <CMM.0.90.0.823579514.jbaltz@scisun.sci.ccny.cuny.edu>

So can anybody recommend a "decent, not too long and not too expensive" rubber duckie antenna?

I don't know how you quantify "not too long" and "not too expensive", but I've had good experiences with the ANLI AL-800 antenna. It comes in 2 parts, a base and a pair of whips. One whip is equivalent to a stock rubber ducky (e.g. nice dummy load) and one is an extendable one, which when extended provides some gain (The manufacturer claims 3.2 dBi on 2m and 5.6 dBi on .7m, here's some kosher salt to go with those numbers. Actually, it just said "dB" and not "dBi" but I wouldn't assume a rubber ducky would be 3.2 dBd.) when extended and some improvement over a rubber ducky when collapsed.

For me, I can hit every 2m repeater in NYC from my living room in Brooklyn -- I don't have any real experience with it on .7m. The antenna setup runs around \$40.

Thomas J. Jennings | Tel: (716) 273 7071

//jbaltz

jerry b. altzman Entropy just isn't what it used to be +1 212 650 5617
jbaltz@sci.ccny.cuny.edu jbaltz@columbia.edu KE3ML (HEPNET) NEVIS::jbaltz

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: markem@primenet.com (Mark Monninger)
Subject: [3915] Re: Working people on an Eico 722K VFO!
Message-ID: <199602060053.RAA05452@usr6.primenet.com>

I don't know about the Eico, but the guy who gave me my first Novice exam in 1960 used to use a Knight-kit VFO as a transmitter when it wasn't driving his homebrew 500+W plate-modulated AM xmtr. The Knight-kit was probably about the same as the Eico. He claimed it put out 5 or 6 watts. Hmmm...maybe I'll dig out the HG-10 and give it a try...I think it's even 50ohm output

impedance.

Anyone (else) ever thought about the reverse...using a QRP rig as a VFO for a boatanchor?

73... Mark AA7TA

From qrp-1@lehigh.edu Mon Feb 5 22:39:51 1996
From: PaulKB8N@aol.com
Subject: [3921] Re: Working people on an Eico 722K VFO!
Message-ID: <960205222607_313746082@emout06.mail.aol.com>

I used a heath VF-1 VFO at about 1 Watt in the late 60s and worked 17 states on 40 and 160M. Paul, KB8N